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I, JULIE BILLINGSLEY, TEAM LEADER EXAMINATION SUPPORT AND SALES hereby certify that annexed is a true copy of the Provisional specification in connection with Application No. 2003902030 for a patent by NANKERVIS ELECTRICAL PTY LTD as filed on 29 April 2003.

I further certify that the above application is now proceeding in the name of CABLESTIK PTY LTD pursuant to the provisions of Section 113 of the Patents Act 1990.

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WITNESS my hand this  
Thirtieth day of April 2004

*J Billingsley*

JULIE BILLINGSLEY  
TEAM LEADER EXAMINATION  
SUPPORT AND SALES

Our Ref: 7806123

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AUSTRALIA

Patents Act 1990

**PROVISIONAL SPECIFICATION**

**Applicant(s):**

Nankervis Electrical Pty Ltd  
12 Kyla Street  
Alstonville New South Wales 2477  
Australia

**Address for Service:**

DAVIES COLLISON CAVE  
Patent & Trade Mark Attorneys  
Level 10, 10 Barrack Street  
SYDNEY NSW 2000

**Invention Title:**

**Support bracket**

The invention is described in the following statement:

- 1 -

## **SUPPORT BRACKET**

The present invention relates generally to brackets for supporting articles. One particular application of the invention concerns the support of cable drums and as a matter of convenience the invention will be hereinafter described with reference to that particular application. It is to be understood however that the bracket of the present invention can be used to support other articles.

During the construction of buildings, electric cables need to be laid at desired locations throughout the building. Usually such electric cables are supplied on cable drums from which selected lengths of cable can be taken. This can be a cumbersome process particularly where there is only one person available for laying of the cables.

It is an object of the present invention to provide a bracket suitable for supporting articles such as for example, cable drums.

According to one aspect of the present invention there is provided a bracket for supporting an article, the bracket including a support section to which the article can be mounted and releasable retaining means for operatively connecting the bracket to a structure so that the support section is in a selected orientation relative to the structure.

In one form, the support section may be in the form of an elongated arm which is preferably tubular or rod shaped. The support section may include stops thereon for limiting movement of the article along the arm when mounted thereto. In one form, the stops may be in the form of a upstanding spaced apart pins.

Preferably, when the bracket is mounted to the structure the arm is disposed generally horizontally and extends from the structure.

In one embodiment, the releasable retaining means includes a hook shaped element operatively connected to one end of the arm, the hook shaped element being mounted for

- 2 -

pivotal movement relative to the arm between a fitting position and a mounted position. The releasable retaining means may further include a pair of spaced apart locating flanges forming a channel shaped configuration. In the holding position, the structure is received within the channel shaped configuration with the hook shaped element extending at least partially around the structure. In one particular application, the structure may be in the form of a post such as the stud of a building frame. The hook shaped element may be pivotally mounted at selected pivot mountings on the end portion of the arm to allow for the fitting of posts of different cross sectional dimensions.

10 In another embodiment of the invention, the releasable retaining means includes a pair of spaced apart flanges extending from one end of the arm which when in the fitted position the structure is disposed between the flanges with the free ends of each flange extending beyond the structure. Each flange includes a mounting aperture in its free end portion for receiving a mounting pin.

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In order to enable a clearer understanding of the invention, drawings illustrating example embodiments are attached, and in those drawings:

Figure 1 is a side elevation of a bracket according to one embodiment of the present invention;

Figure 2 is a plan view of the bracket shown in Figure 1;

Figure 3 is a schematic view of the bracket shown in a mounted position;

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Figures 4 and 5 are detailed views of the bracket shown in Figures 1 to 3;

Figure 6 is a schematic view of a bracket according to a further embodiment of the present invention;

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Figure 7 is a schematic illustration of a further application of the present invention;

- 3 -

Figures 8 and 9 are schematic views of an attachment for use with a bracket according to the present invention; and

5        Figure 10 is a schematic view of a further attachment for use with the bracket according to the present invention.

Referring in particular to Figures 1 to 5 there is shown a bracket generally indicated at 10 which comprises a support section 12 in the form of an elongated rod shaped arm 13. 10    The arm includes locating pins 14 and 15 thereon between which an article to be carried by the bracket can be positioned.

The bracket 10 further includes releasably retaining means 20 which includes a hook shaped element 22 having a mouth 23 with the hook shaped element 22 being 15    pivotally mounted to the arm 13. As shown the hook shaped element can be pivotally mounted at either pivot mounting 24 or pivot mounting 25, the hook shaped element 22 is retained in position by means of spring clip 28. The retaining means 20 further includes spaced apart locating flanges 26, 27 which form a channel which faces the mouth of the hook shaped element.

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As illustrated in Figure 3, the bracket 10 can be mounted to a position which may for example be a wall frame stud 60 and in the application shown in Figure 3, the bracket is adapted to support a cable drum 70 thereon. The bracket is fitted by locating the hook shaped element around the stud 60 with the flanges having the other side of the stud 25    positioned therebetween. Fitting of the clamp is effected by turning the arm 13 at 90° to the hook shaped member 22 whereby the hook shaped member can be appropriately located around the stud 60 whereafter the arm 13 can be pivotally returned to the position shown in Figure 3 and thereby be retained in a general horizontal position.

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A further embodiment of clamp is shown in Figure 6 in this embodiment the clamp 10 is similar to the first embodiment in that it comprises a support section 12 in the form of

- 4 -

an arm 13 having pins 14 and 15 thereon. In this embodiment the releasable retaining means 20 comprises a pair of spaced apart flanges 32 and 34 which can extend to either side of the wall frame stud 60 with the free ends thereof extending beyond the wall stud. Apertures 36 are provided in the portions of the flanges for receiving a locking pin 35.

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As can be seen in Figure 7, the brackets can be used to support a platform 72 upon which tools such as power saw 73 can be carried.

Figures 8 and 9 show an attachment which is suitable for use with the bracket 10, the attachment being adapted to be fitted to a vehicle tow bar 48 having a ball 49. The attachment includes a post 42 and a socket section 41 for receiving the ball 40 of the tow bar assembly. Locking nut 45 retains the post in position on the tow bar.

Figure 10 illustrates a further attachment in the form of a carriage comprising a base frame 51 having ground engaging wheels 56. The carriage 50 further includes a post mounting tube 53 which is pivotally mounted to the base frame 51 for receiving a post 52 therein, a locking nut 54 retains the post in position. The bracket 10 can be fitted to the post 52 in a manner described earlier.

Finally, it is to be understood that the inventive concept in any of its aspects can be incorporated in many different constructions so that the generality of the preceding description is not to be superseded by the particularity of the attached drawings. Various alterations, modifications and/or additions may be incorporated into the various constructions and arrangements of parts without departing from the spirit or ambit of the invention.

Dated this 29<sup>th</sup> day of April, 2003

**NANKERVIS ELECTRICAL PTY LTD**

By Its Patent Attorneys

30 **DAVIES COLLISON CAVE**

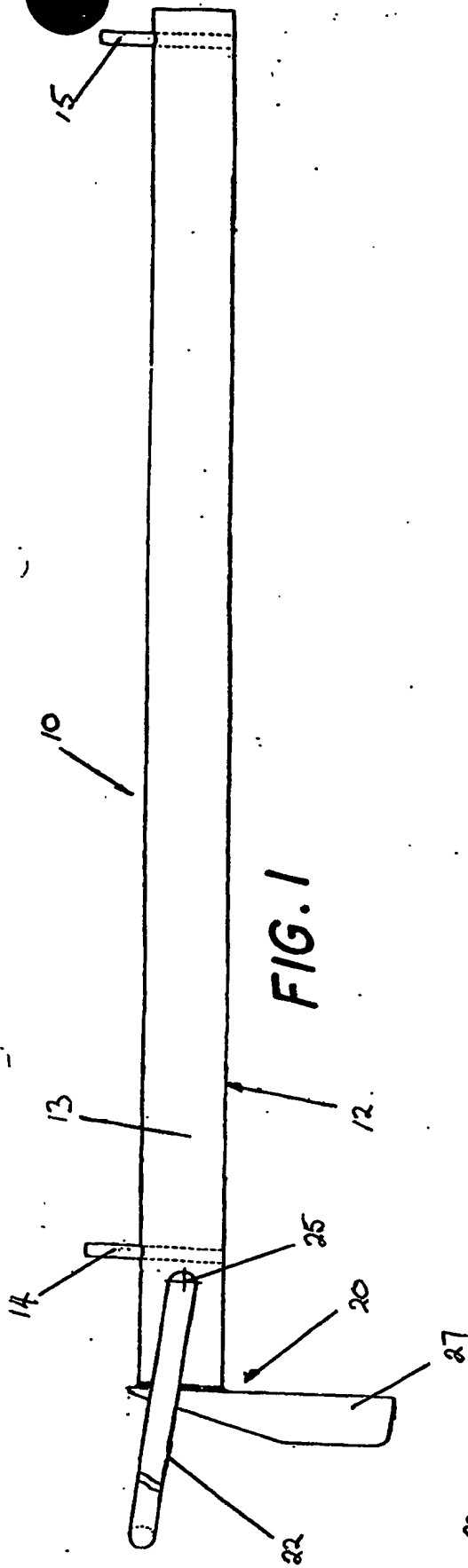


FIG. 1

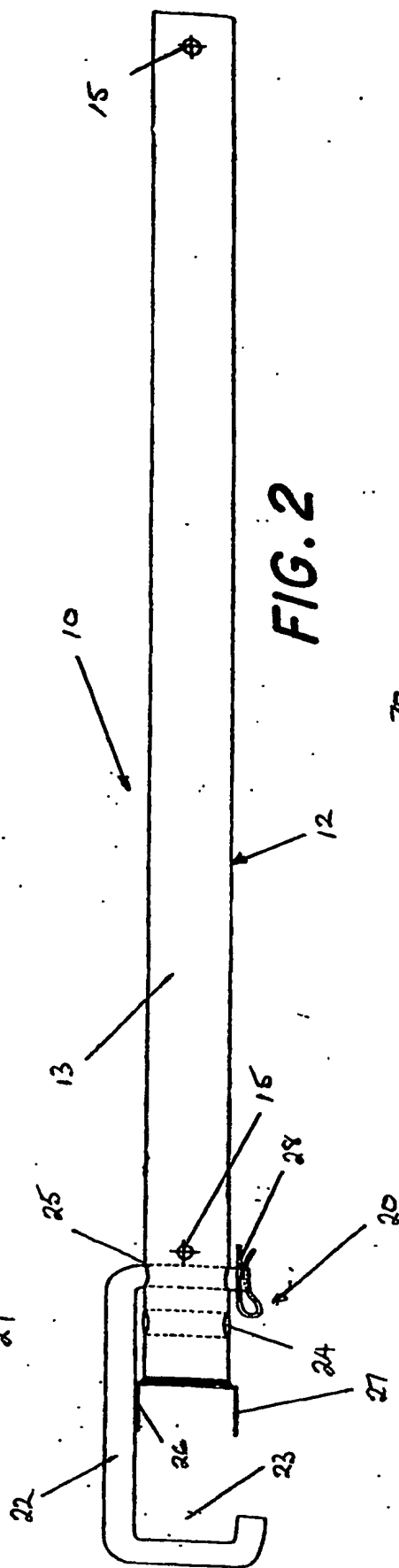


FIG. 2

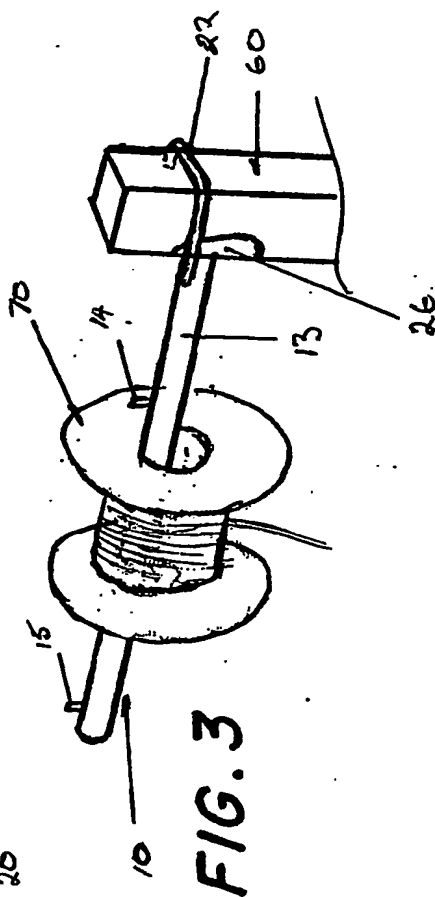
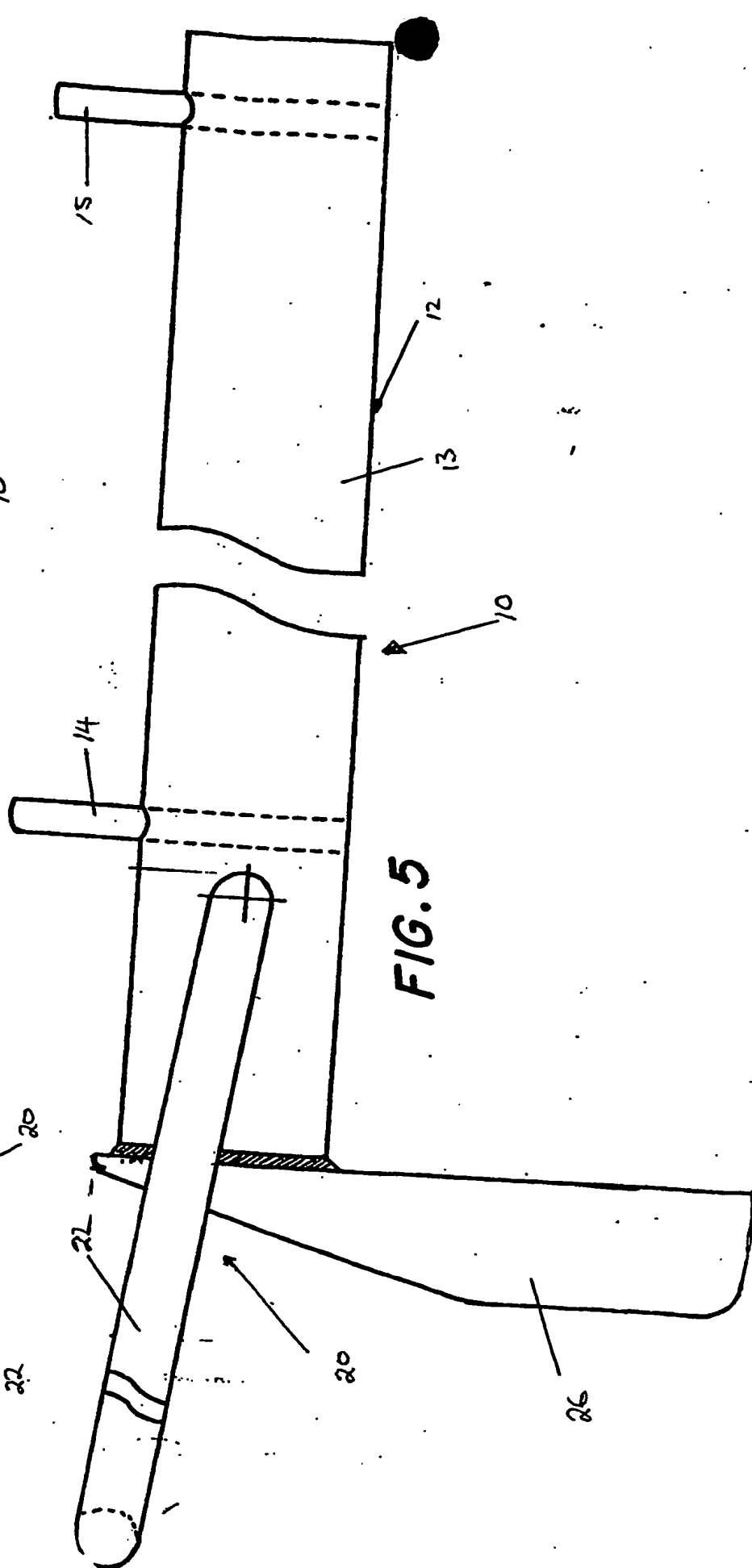
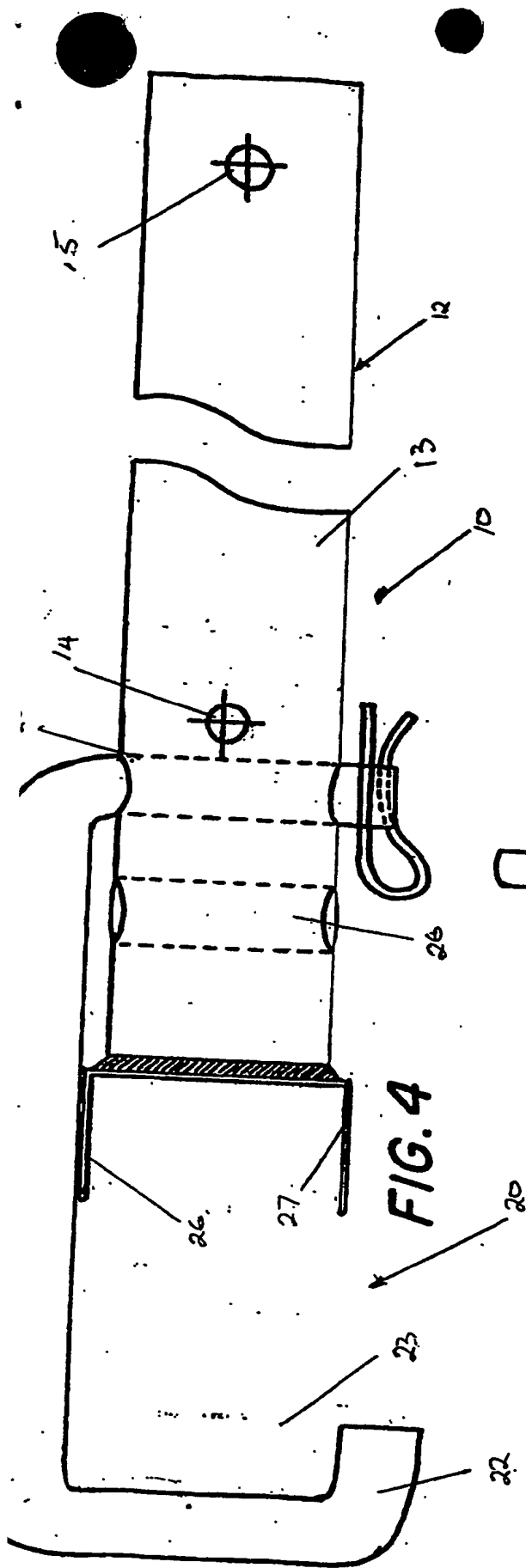
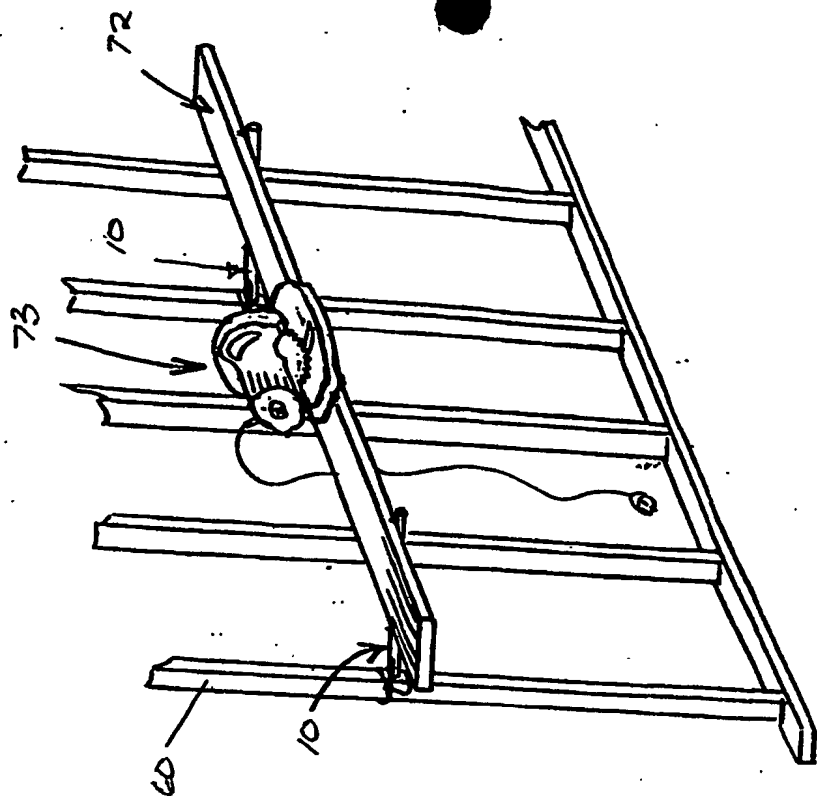
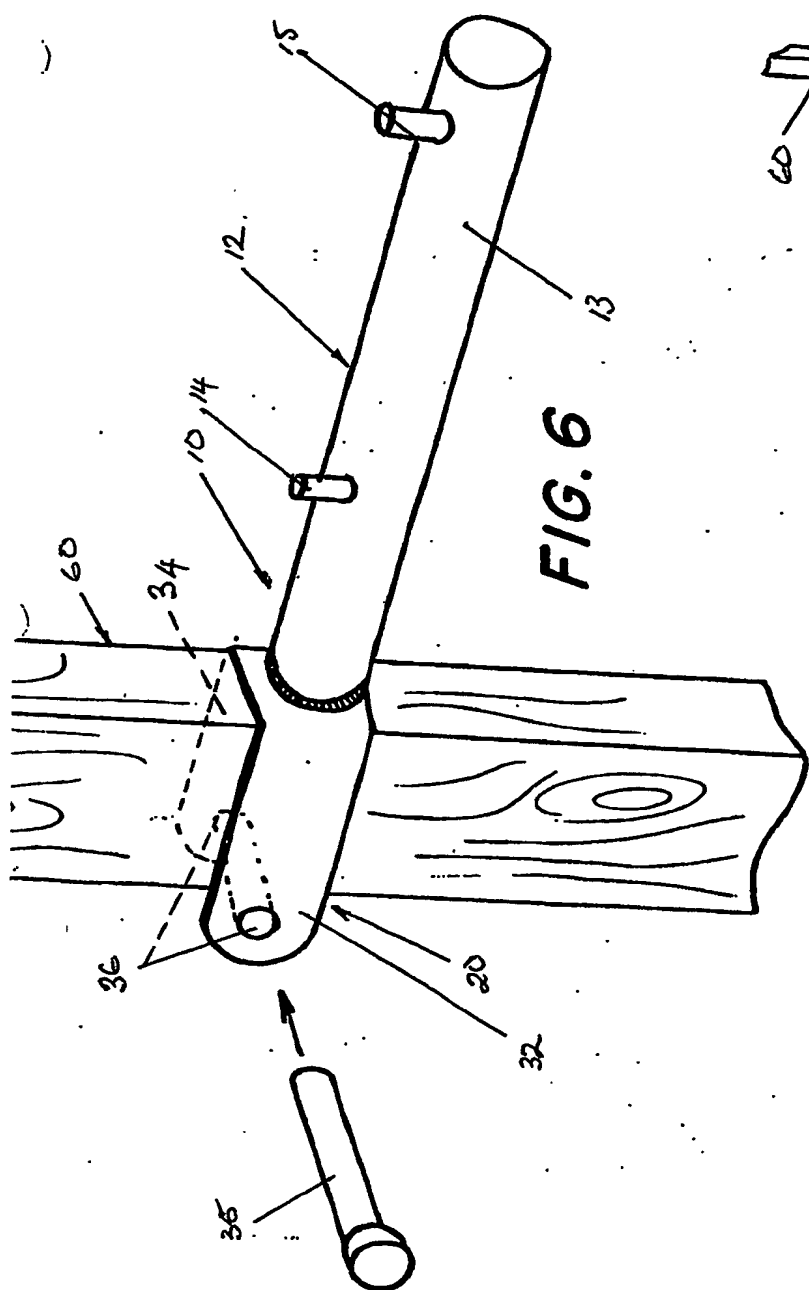


FIG. 3







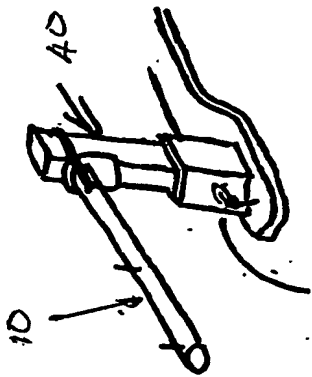


FIG. 8

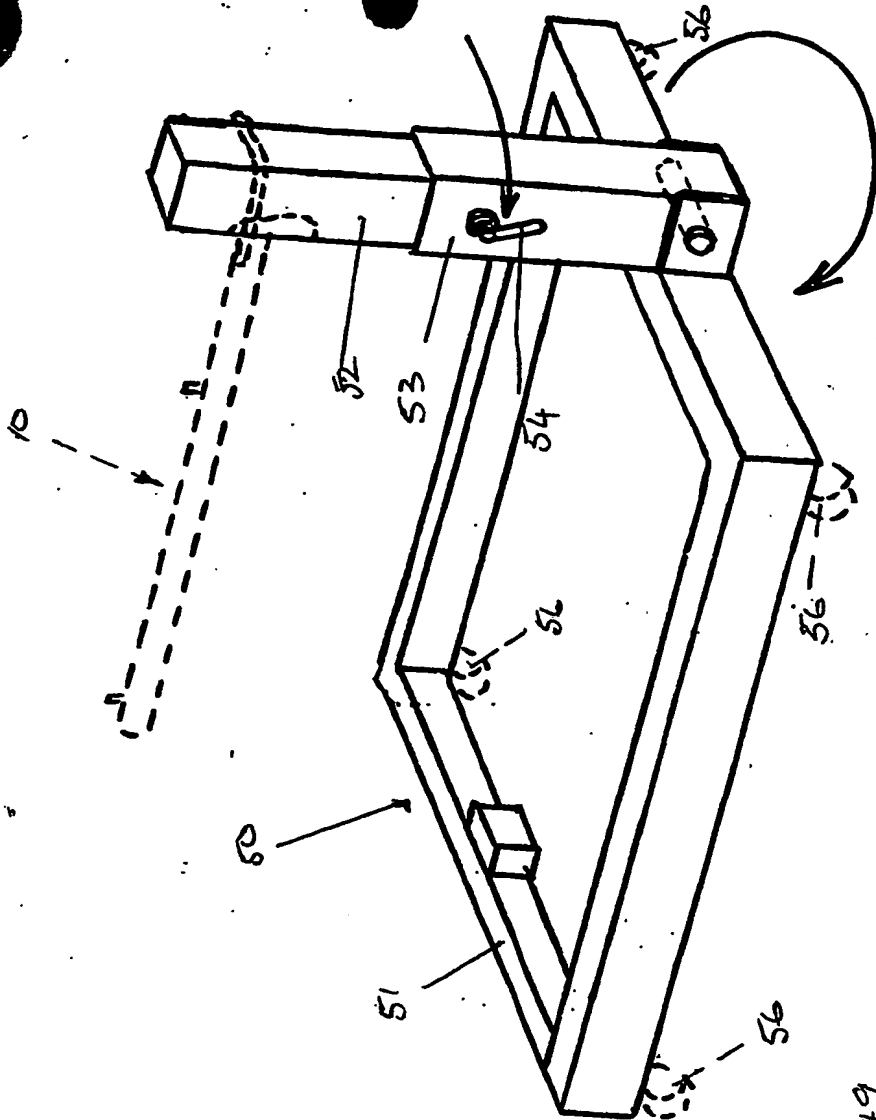


FIG. 10

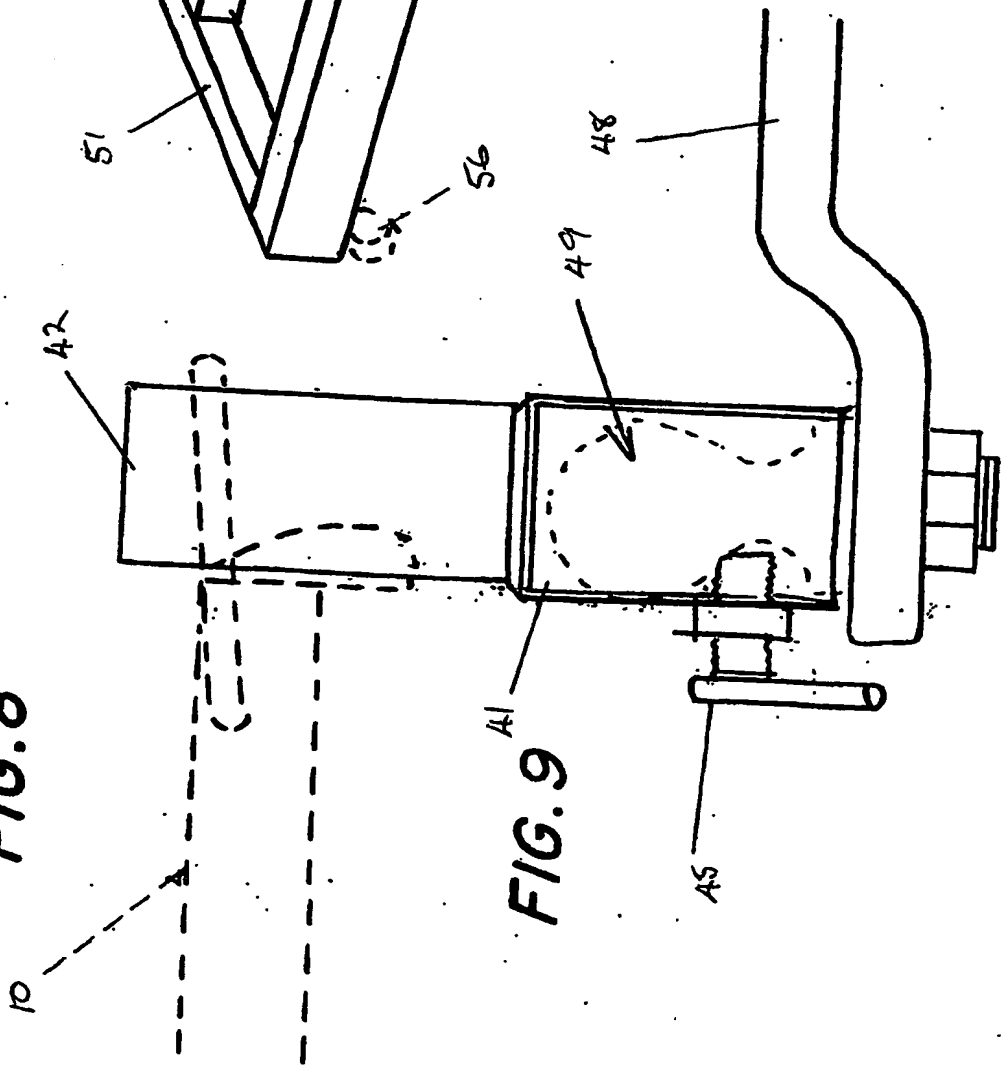


FIG. 9

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